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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/593,234	09/18/2006	Yuzi Ando	2936-0284PUS1	7354
2292 7590 10/22/2009 BIRCH STEWART KOLASCH & BIRCH PO BOX 747 FALLS CHURCH, VA 22040-0747				
EXAMINER				
PELHAM, JOSEPH MOORE				
ART UNIT		PAPER NUMBER		
3742				
NOTIFICATION DATE		DELIVERY MODE		
10/22/2009		ELECTRONIC		

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

mailroom@bskb.com

# Office Action Summary

**Application No.**

10/593,234

**Applicant(s)**

ANDO ET AL.

**Examiner**

Joseph M. Pelham

**Art Unit**

3742

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 07 October 2009.  
2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.  
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 2, 3 and 16 is/are pending in the application.  
4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.  
6) ☒ Claim(s) 2 is/are rejected.  
7) ☒ Claim(s) 3 and 16 is/are objected to.  
8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.  
10) ☒ The drawing(s) filed on 18 September 2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☒ All b) ☐ Some \* c) ☐ None of:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)  
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  
3) ☐ Information Disclosure Statement(s) (PTO/SB-08)  
Paper No(s)/Mail Date \_\_\_\_\_  
4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_  
5) ☐ Notice of Informal Patent Application  
6) ☐ Other: \_\_\_\_\_

The amendment filed 10/7/09 is acknowledged. Claims 2, 3, and 16 are now pending. The examiner notes that an updated search, and review of the independent claim, has determined new grounds of rejection. He sincerely regrets any inconvenience. A non-final action on the merits follows.

***Claim Rejections - 35 USC § 103***

Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over JP54-127769 in view of US Pats. 5402709, 6700101, and 4924072.

Referring to Fig. 1 especially, JP'769 discloses a cooking device comprising a "steam generating heater" 14, an outer circulation passage with a blower 24, a "vapor heating heater" 22 which provides superheated steam in the cooking chamber, and both radiant heating 17 and vapor heating heater 22 can be used independently of the steam generating means (see the translation supplied by the examiner, the paragraph bridging pages 5 and 6, and the 1<sup>st</sup> full paragraph in page 6).

The claim differs from JP'769 only in calling for main and sub steam generating heaters, main and sub vapor heating heaters, and "superheated steam of different temperatures by either controlling the feeding of electric power so that the vapor heating heater generates a larger amount of heat than the steam generating heater while the steam generating heater is generating heat -or- controlling the feeding of electric power so that the steam generating heater generates a larger amount of heat than the vapor heating heater while the vapor heating heater is generating heat, **and** under a condition that total electric power consumption by the steam generating heater and the vapor heating heater does not exceed a predetermined value."

Referring to Figs. 3 & 5, and col. 5, line 23, through col. 6, line 7, US'072 discloses main and sub steam generating heaters 68, and main and sub vapor heating heaters 86, 88, 90. It would have been obvious to adapt the plurality of bother vapor heating and steam generating heaters of US'072 to the device of JP'769 to enhance control of heat transfer, as taught by US'072.

Noting that the recited power levels are an intended use of the device, US'709 discloses a "steam generating heater" 20, and a "vapor heating heater" 58 with a power level control means 78, 80 that can be adjusted to raise steam temperature "beyond 100<sup>o</sup> C" and provides superheated steam in the cooking chamber. Steam generating heater 20 operates up to a preferable upper limit between 95 and 108<sup>o</sup> C (col. 13, lines 59-66), though up to 130<sup>o</sup> C is contemplated (col. 14, lines 19-23). Hence the power level of the "vapor heating heater" can be set either above or below that of the "steam generating heater," meeting this claim limitation.

US'101 discloses, in the abstract, operating a cooking appliance "under a condition that total electric power consumption" by a plurality of heaters "does not exceed a predetermined value."

It would have been obvious to adapt the heater control means of US'709 to the cooking appliance of JP'769 in view of US'072 to enhance temperature control of the

cooking environment, and to utilize the power limiting means of US'101 where a plurality of heating means in the appliance must be held below an available power limit.

***Allowable Subject Matter***

Claims 3 and 16 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

***Response to Arguments***

Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection.

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph M. Pelham whose telephone number is 571-272-4786. The examiner can normally be reached on M-F 8:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tu Hoang can be reached on 571-272-4780. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Joseph M. Pelham/  
Primary Examiner, Art Unit 3742  
10/19/09